

## CLAIMS

I claim:

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A17*

1        1. A transmission for a wind generator, the transmission comprising  
2        a housing,  
3        a rotor supported in said housing,  
4        a multi-stage planetary transmission stage driven by said rotor, and  
5        a spur gear stage driven by said multi-stage planetary transmission stage, said  
6        spur gear stage driving at least one generator.

7  
8        2. A transmission as in claim 1 further comprising  
9        an annular gear carrier fixed directly to said rotor,  
10      an annular gear fixed to said annular gear carrier, said multi-stage planetary  
11      transmission stage including said annular gear.

12      3. A transmission as in claim 1 further comprising  
13      a pair of sliding contact bearings supporting said rotor in said housing, at least one  
1        4        of said bearings absorbing axial forces,  
2        5        an oil pump for raising said bearings hydrostatically, and  
3        6        means for controlling said oil pump so that said bearings can be switched between  
4        5        partially and fully hydrodynamic lubrication.

1        4. A transmission as in claim 2 wherein said rotor and said annular gear  
2        5        carrier are formed integrally.

1               5.     A transmission as in claim 2 wherein said annular gear carrier is fitted to  
2     said rotor in at least one of a form fit and a press fit.

1               6.     A transmission as in claim 2 wherein said annular gear is fixed to said  
2     annular gear carrier by a toothed coupling.

1               7.     A transmission as in claim 1 wherein said rotor is formed integrally with a  
2     rotor head which holds the blades driven by the wind.

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2               6107   8.     A transmission as in claim 1 further comprising  
3               a bearing cover secured to said housing, and  
                  bearings for said spur gear stage supported in said bearing housing.

1               9.     A transmission as in claim 1 wherein said planetary transmission stage  
2     comprises gears having helical teeth.

1               10.    A transmission as in claim 1 wherein said planetary transmission stage  
2     drives said spur gear stage via a sun gear carried on a sun gear shaft, said sun gear shaft being  
3     mounted for resilient axial movement.

1               11.    A transmission as in claim 10 further comprising a sensor which records  
2     the axial force of the sun gear shaft.

1               12.    A transmission as in claim 2 wherein said annular gear has internal teeth  
2     which are surface-hardened.

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all*      13. A transmission as in claim 1 further comprising  
2                  a flanged housing surrounding said spur gear stage, and  
3                  at least two output shafts arranged in said housing and driving respective  
4                  generators, each said output shaft having a pinion gear which engages said spur gear stage.

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